

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101018\
 Data File : VN051796.D
 Acq On : 10 Oct 2018 17:24
 Operator : MD\SY
 Sample : PB113684ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113684ZHE#07

Quant Time: Oct 11 01:59:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 06:03:49 2018
 Response via : Initial Calibration

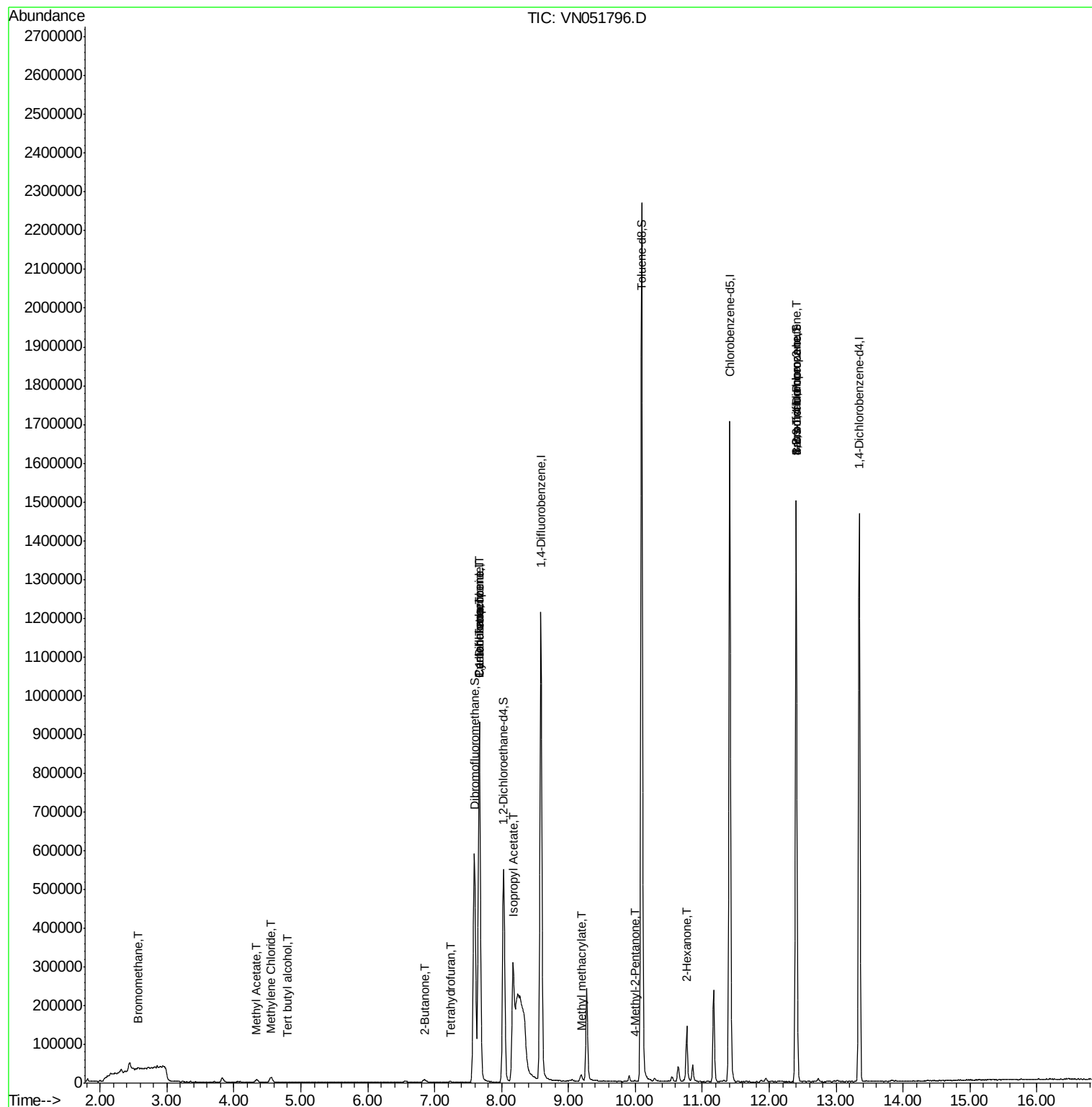
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	809731	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1174725	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1048038	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	411196	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	473091	44.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.46%	
35) Dibromofluoromethane	7.59	113	435223	47.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.84%	
50) Toluene-d8	10.09	98	1663907	49.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	12.40	95	488555	40.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	81.46%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.56	94	2374	0.212	ug/l #	80
7) Trichlorofluoromethane	2.87	101	30	Below Cal	#	57
11) Tert butyl alcohol	4.79	59	281	0.387	ug/l #	73
13) Acrolein	3.57	56	114	Below Cal	#	79
16) Acetone	3.82	43	17837	Below Cal		98
18) Methyl Acetate	4.33	43	12305	2.084	ug/l	94
20) Methylene Chloride	4.56	84	9888	1.124	ug/l #	87
25) 2-Butanone	6.85	43	9075	2.938	ug/l	91
29) Tetrahydrofuran	7.22	42	1539	0.812	ug/l #	74
31) Cyclohexane	7.67	56	14853	1.023	ug/l #	20
36) 1,1-Dichloropropene	7.67	75	52651	4.288	ug/l #	49
38) Carbon Tetrachloride	7.67	117	73388	4.981	ug/l #	16
41) Methacrylonitrile	7.15	41	31	Below Cal	#	30
43) Isopropyl Acetate	8.17	43	398505	29.846	ug/l	93
48) Methyl methacrylate	9.18	41	7859	1.288	ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	2121	0.313	ug/l #	81
59) 2-Hexanone	10.77	43	22016	4.791	ug/l #	56
71) Bromoform	12.41	173	4152	0.537	ug/l #	1
74) N-amyl acetate	12.10	43	233	Below Cal	#	20
75) 1,1,2,2-Tetrachloroethane	12.53	83	63	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	256531	50.228	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	256531	114.679	ug/l #	14

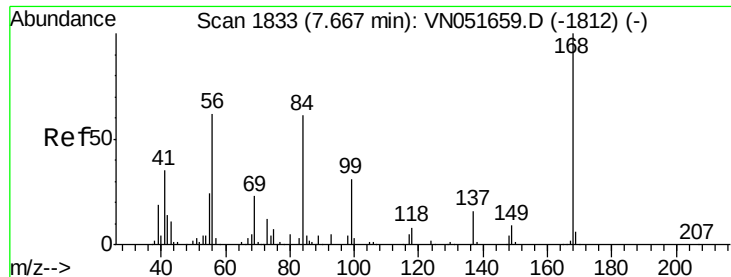
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051796.D

Acq: 10 Oct 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

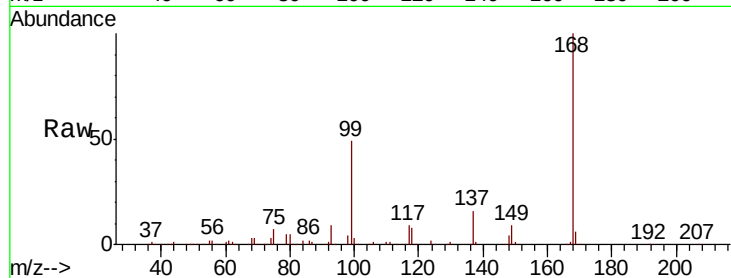
PB113684ZHE#07

Tot Ion:168 Resp: 809731

Ion Ratio Lower Upper

168 100

99 48.7 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): VN051796.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051796.D (-1740) (-)

7.67

400000

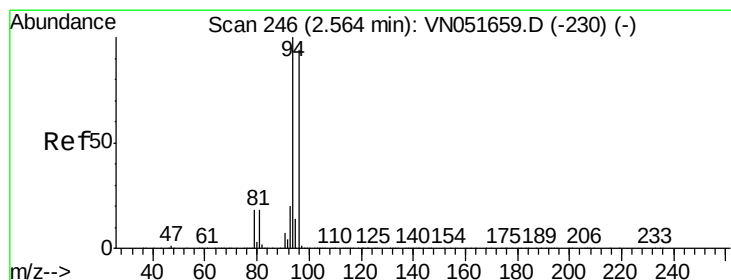
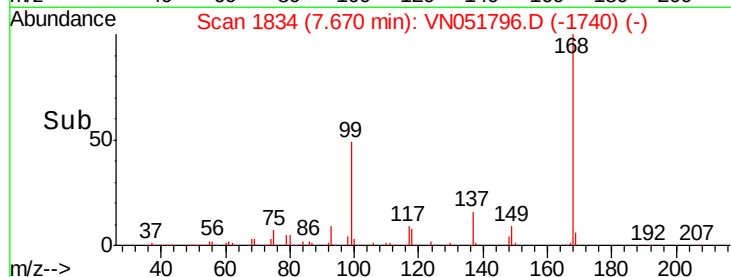
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.212 ug/l

RT: 2.56 min Scan# 246

Delta R.T. -0.00 min

Lab File: VN051796.D

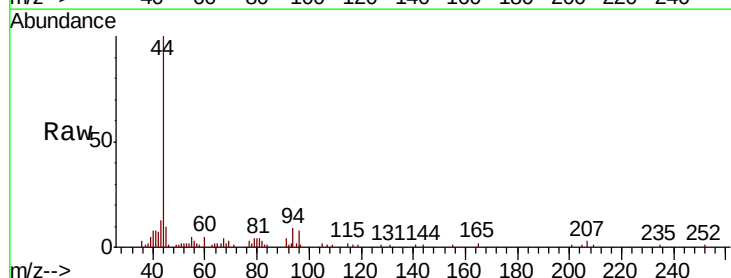
Acq: 10 Oct 2018 17:24

Tgt Ion: 94 Resp: 2374

Ion Ratio Lower Upper

94 100

96 74.5 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VN051796.D (-153) (-)

Ion 95.90 (95.60 to 96.60): VN051796.D (-153) (-)

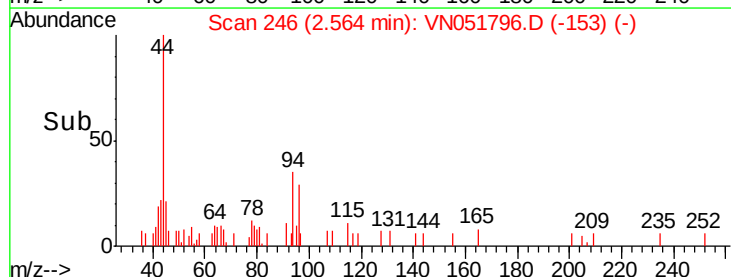
2.56

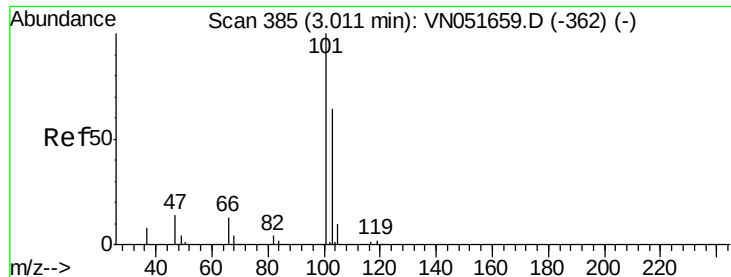
1000

500

0

Time-->



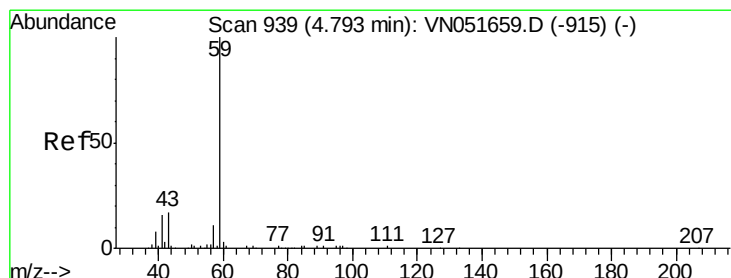
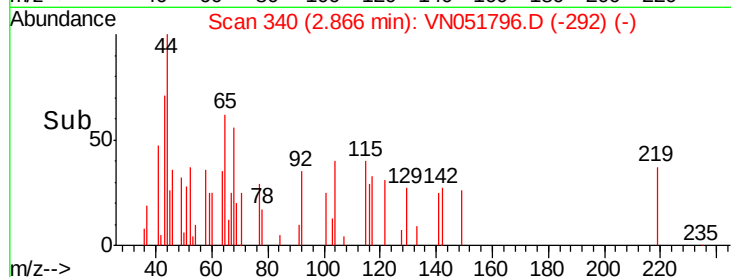
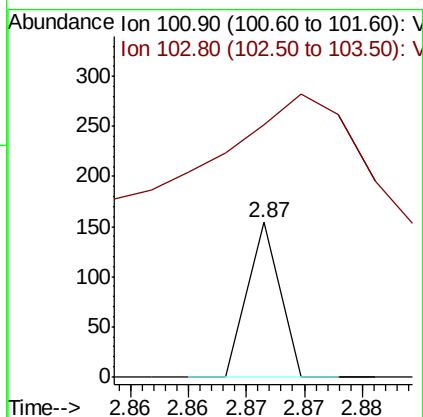
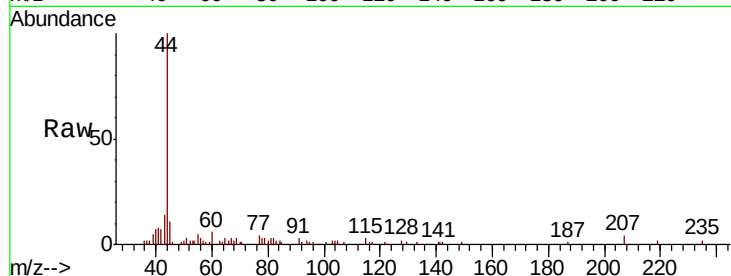


#7

Trichlorofluoromethane
Concen: Below Cal
RT: 2.87 min Scan# 340
Delta R.T. -0.14 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#07

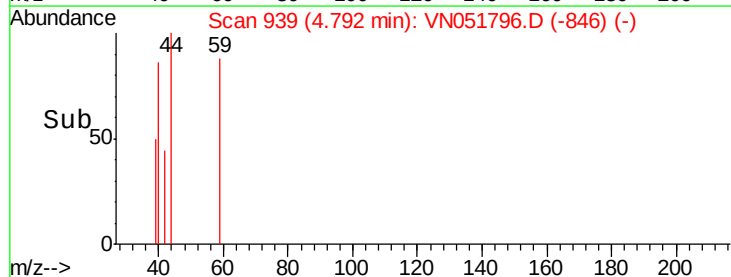
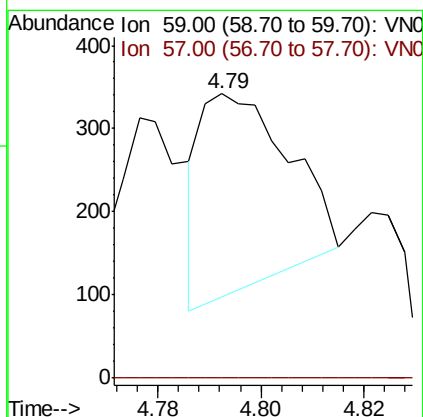
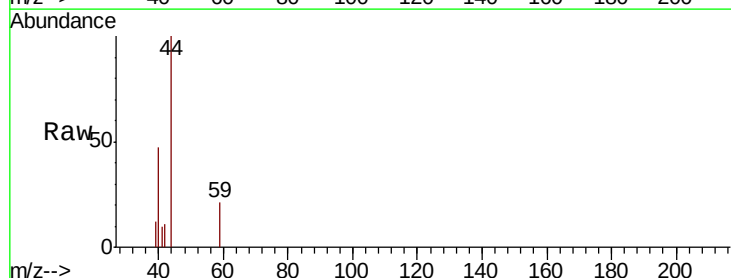
Tot Ion:101 Resp: 30
Ion Ratio Lower Upper
101 100
103 30.5 51.1 76.7#

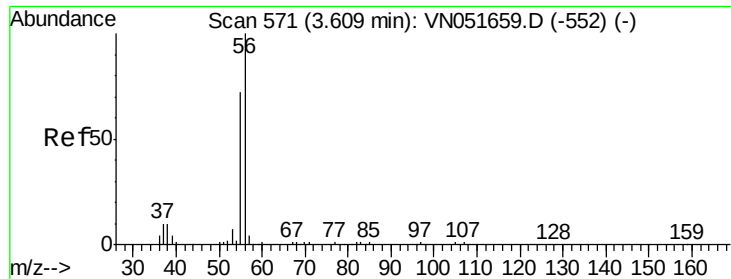


#11

Tert butyl alcohol
Concen: 0.387 ug/l
RT: 4.79 min Scan# 939
Delta R.T. -0.00 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

Tgt Ion: 59 Resp: 281
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

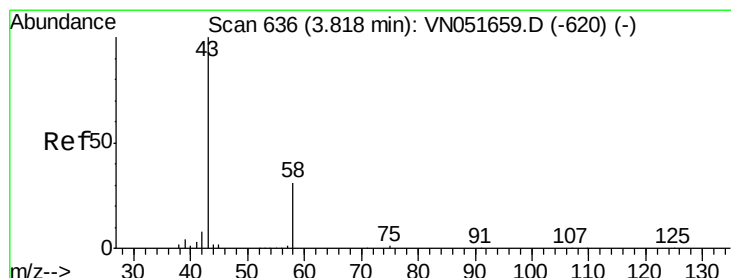
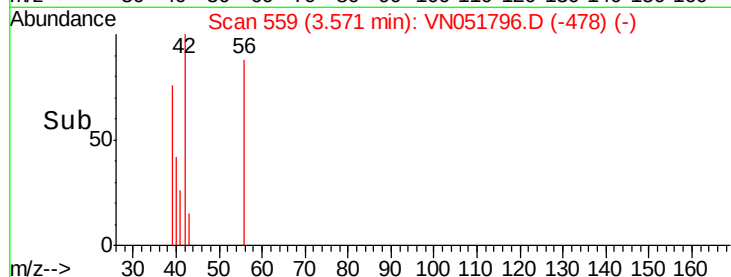
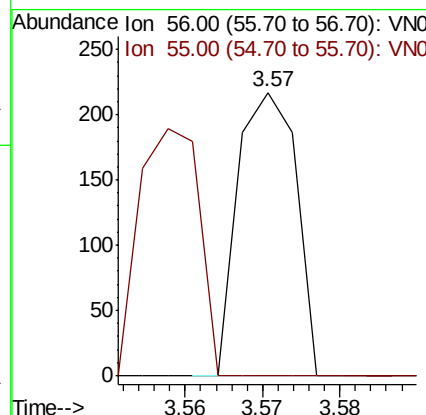
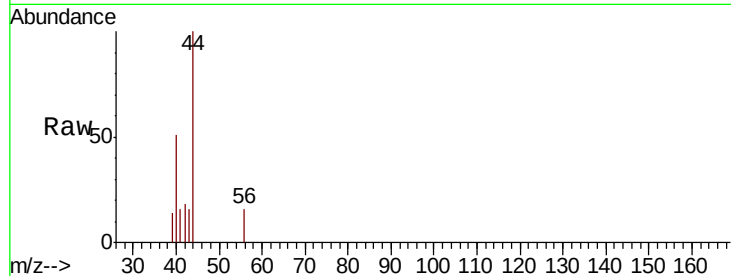




#13
Acrolein
Concen: Below Cal
RT: 3.57 min Scan# 559
Delta R.T. -0.04 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

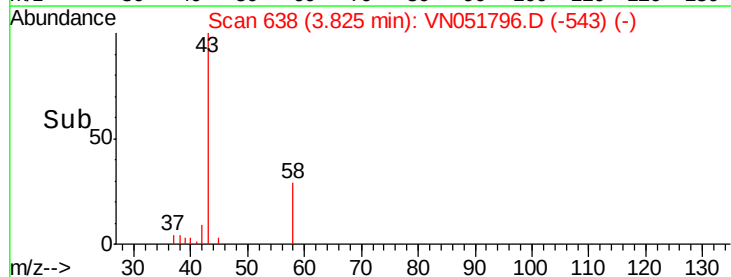
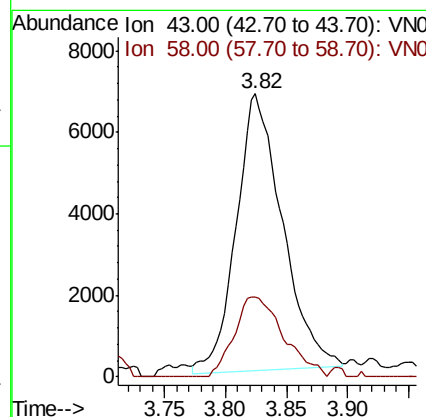
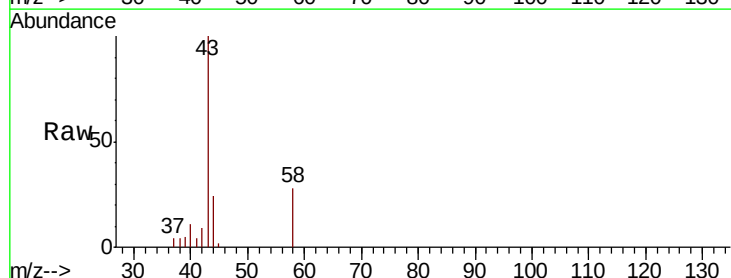
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#07

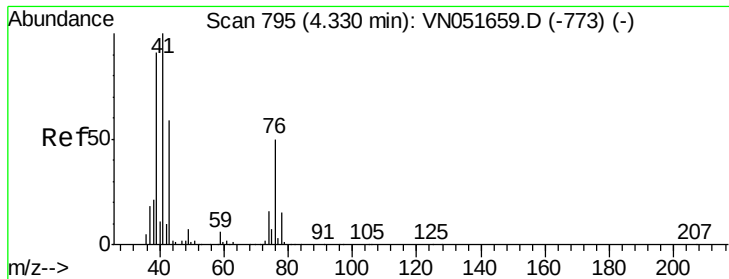
Tot Ion: 56 Resp: 114
Ion Ratio Lower Upper
56 100
55 89.5 57.5 86.3#



#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

Tgt Ion: 43 Resp: 17837
Ion Ratio Lower Upper
43 100
58 29.5 24.3 36.5

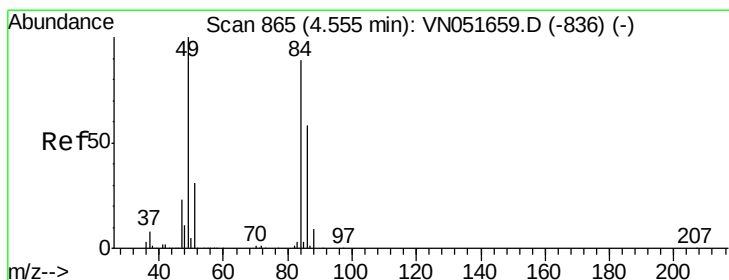
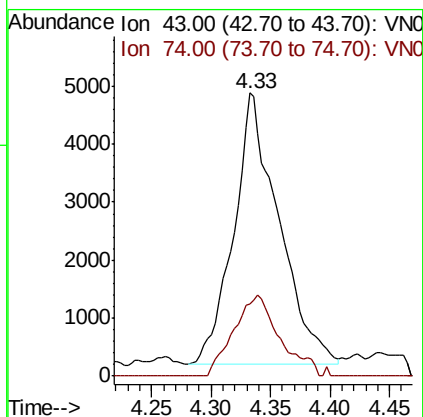
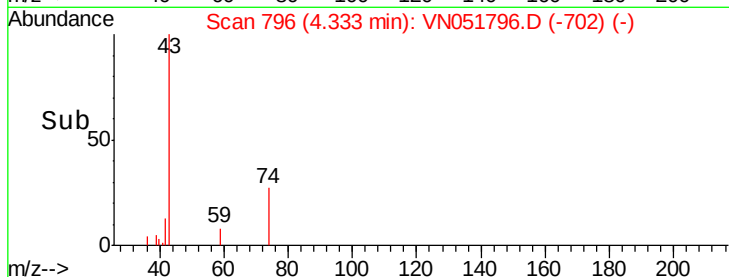
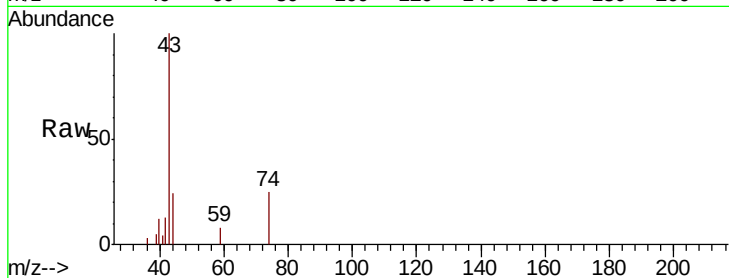




#18
Methvl Acetate
Concen: 2.084 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

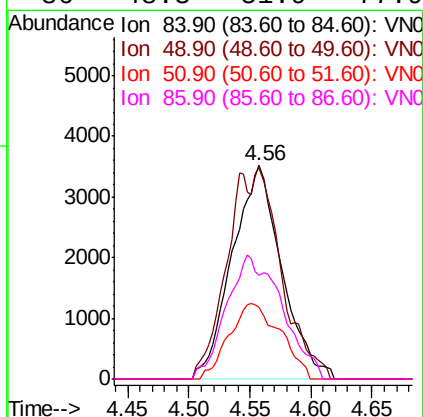
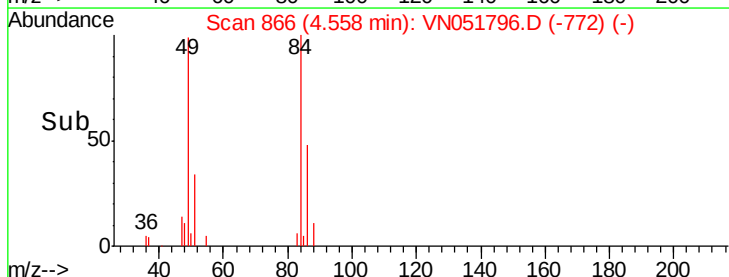
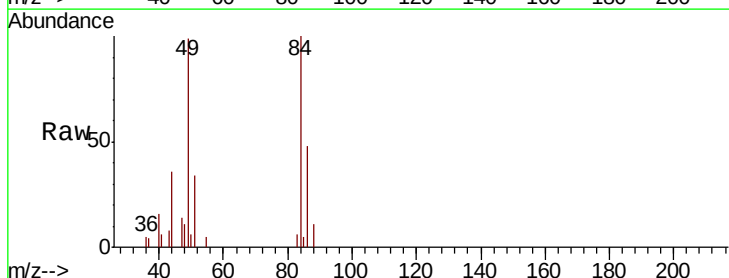
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#07

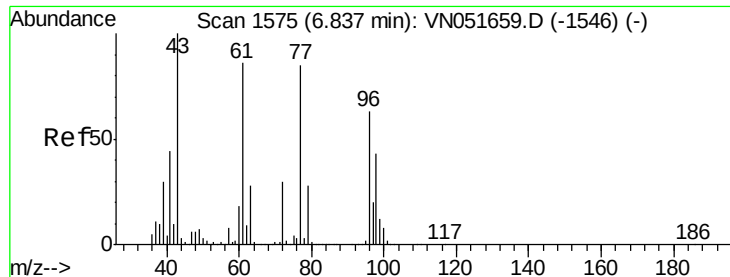
Tot Ion: 43 Resp: 12305
Ion Ratio Lower Upper
43 100
74 30.3 21.5 32.3



#20
Methylene Chloride
Concen: 1.124 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

Tgt Ion: 84 Resp: 9888
Ion Ratio Lower Upper
84 100
49 99.2 89.5 134.3
51 33.6 27.4 41.0
86 48.3 51.9 77.9#

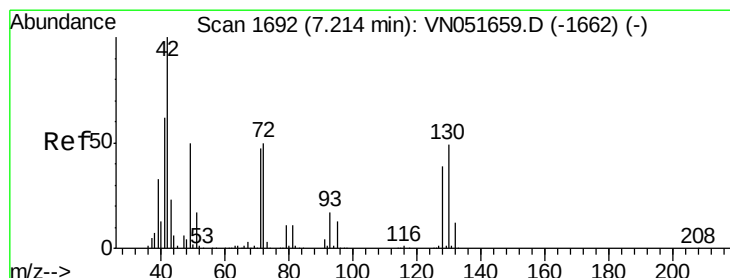
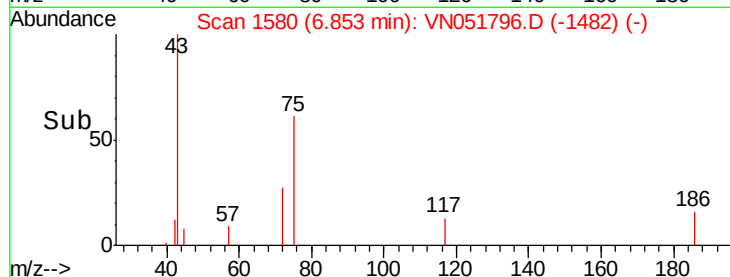
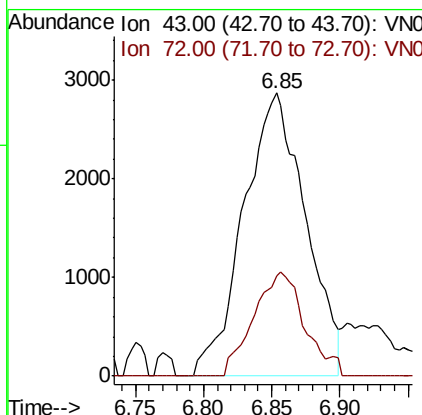
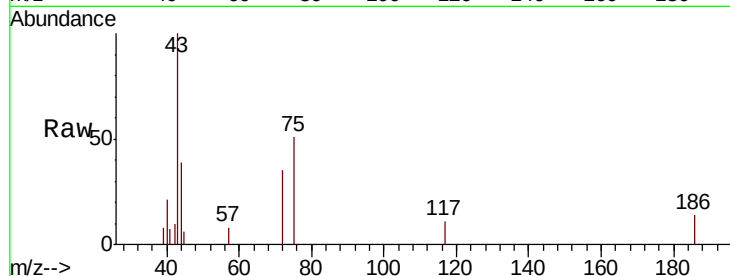




#25
2-Butanone
Concen: 2.938 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

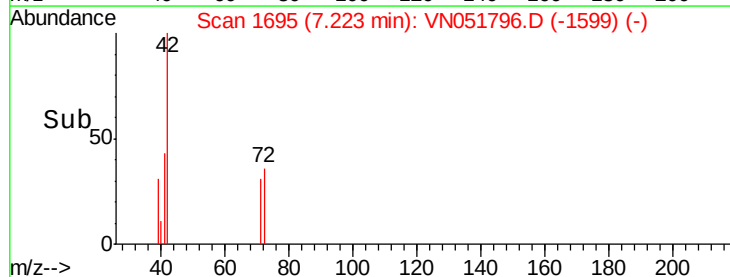
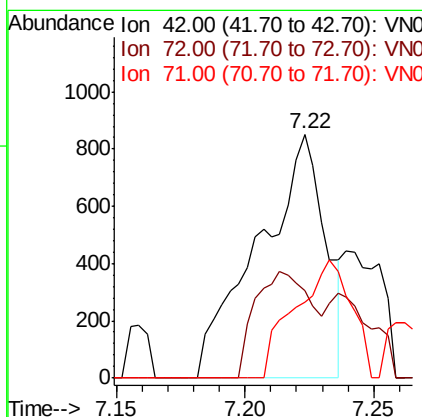
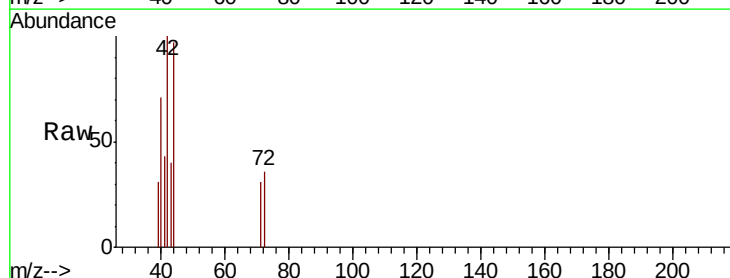
Instrument :
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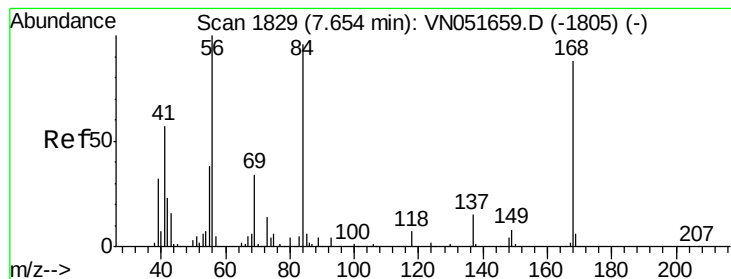
Tot Ion: 43 Resp: 9075
Ion Ratio Lower Upper
43 100
72 35.3 24.2 36.2



#29
Tetrahydrofuran
Concen: 0.812 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

Tgt Ion: 42 Resp: 1539
Ion Ratio Lower Upper
42 100
72 22.4 40.1 60.1#
71 40.7 38.0 57.0





#31

Cyclohexane

Concen: 1.023 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051796.D

Acq: 10 Oct 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#07

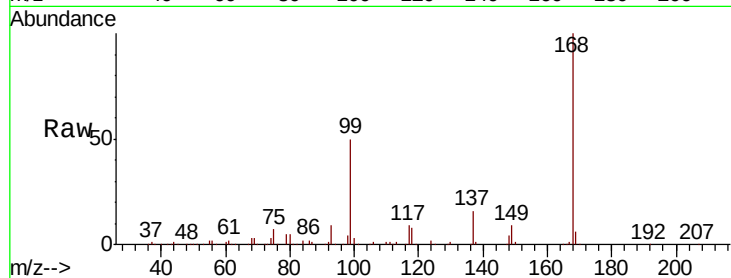
Tot Ion: 56 Resp: 14853

Ion Ratio Lower Upper

56 100

69 163.5 27.5 41.3#

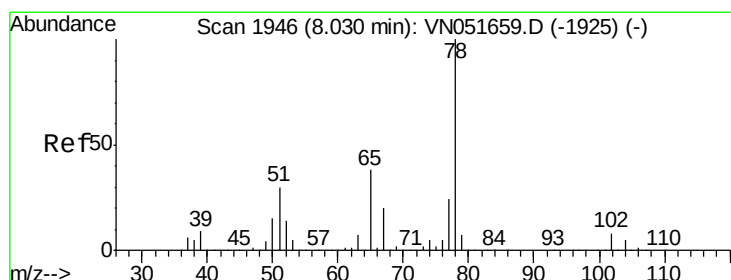
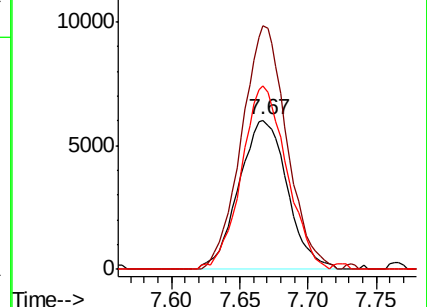
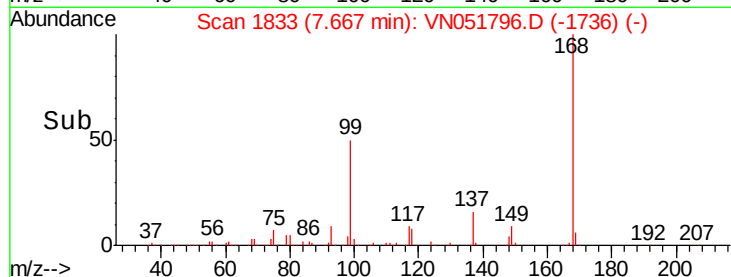
84 123.1 76.7 115.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1946

Delta R.T. -0.00 min

Lab File: VN051796.D

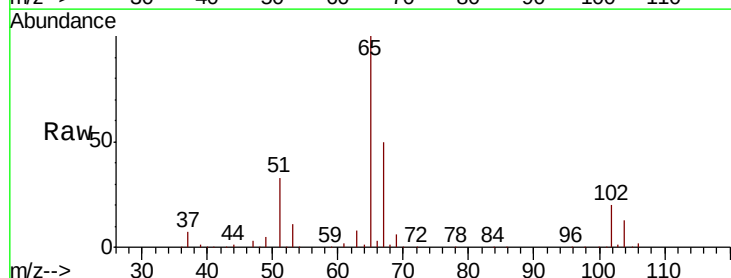
Acq: 10 Oct 2018 17:24

Tgt Ion: 65 Resp: 473091

Ion Ratio Lower Upper

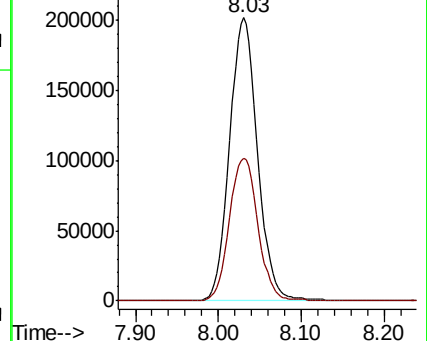
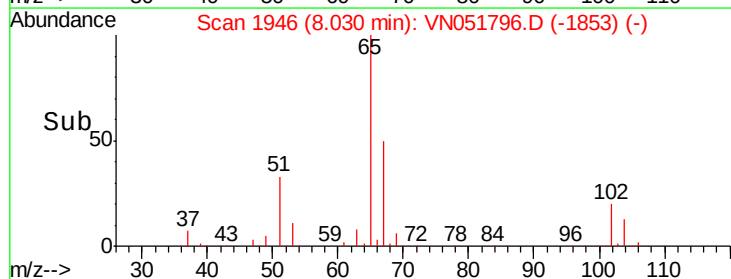
65 100

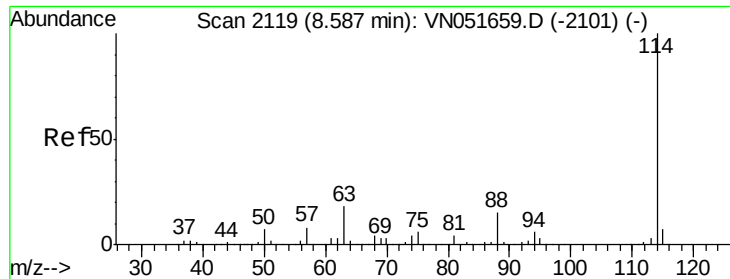
67 51.8 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

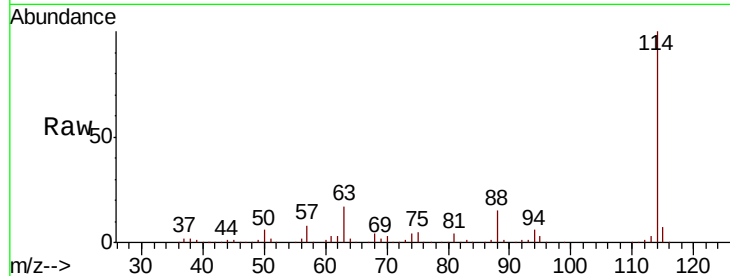




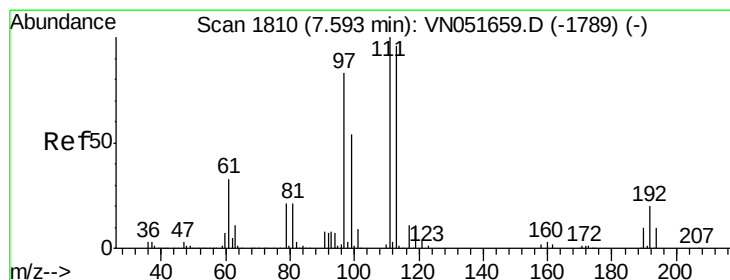
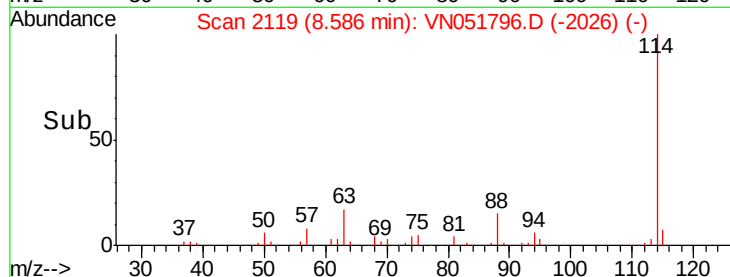
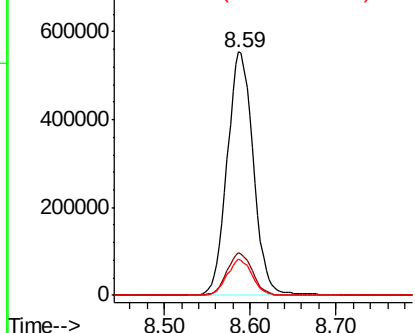
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#07

Tot Ion:114 Resp: 1174725
Ion Ratio Lower Upper
114 100
63 17.3 0.0 36.2
88 14.6 0.0 30.2

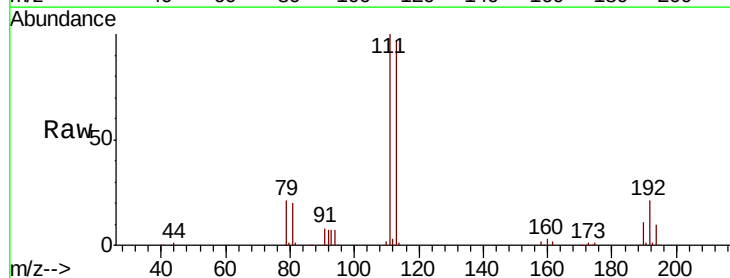


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

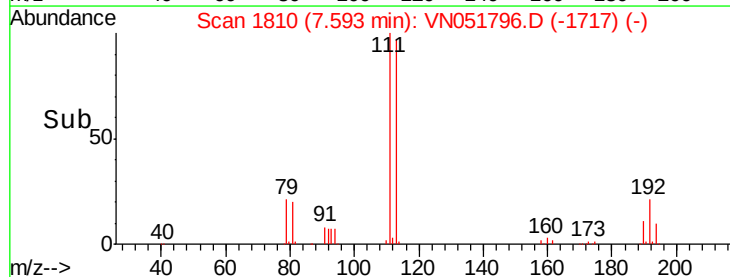
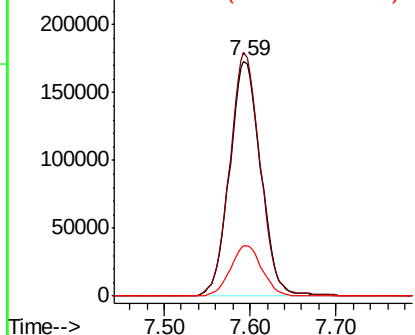


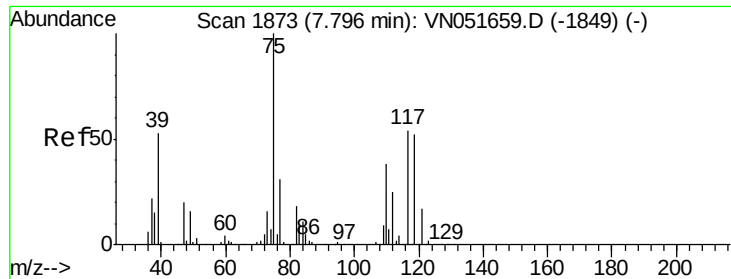
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

Tgt Ion:113 Resp: 435223
Ion Ratio Lower Upper
113 100
111 101.9 81.8 122.8
192 21.7 16.5 24.7



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

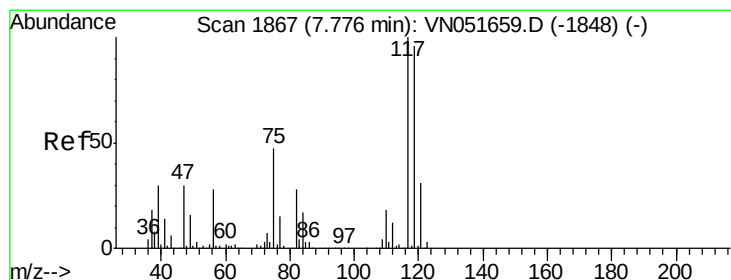
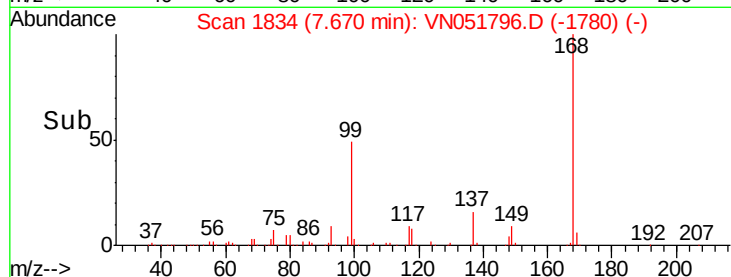
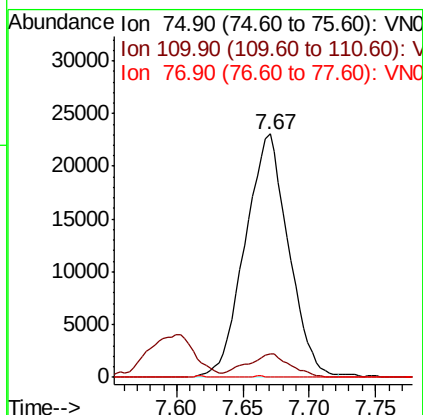
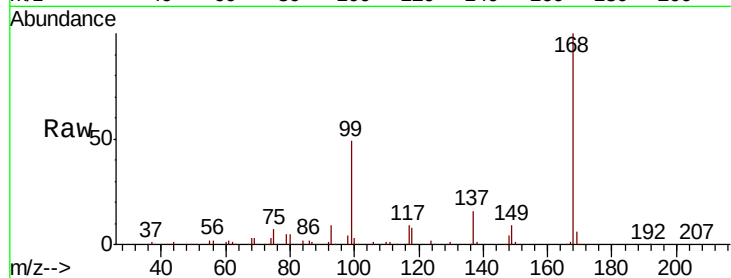




#36
 1,1-Dichloropropene
 Concen: 4.288 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.13 min
 Lab File: VN051796.D
 Acq: 10 Oct 2018 17:24

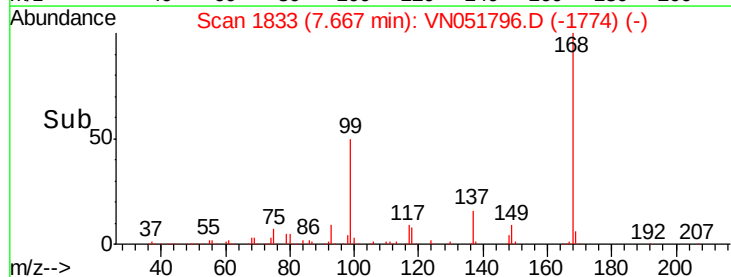
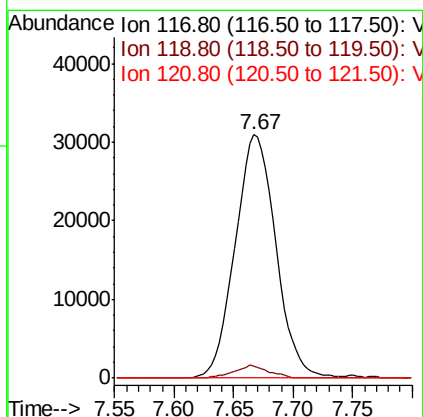
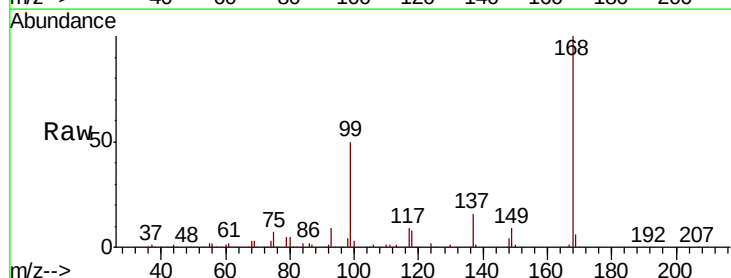
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113684ZHE#07

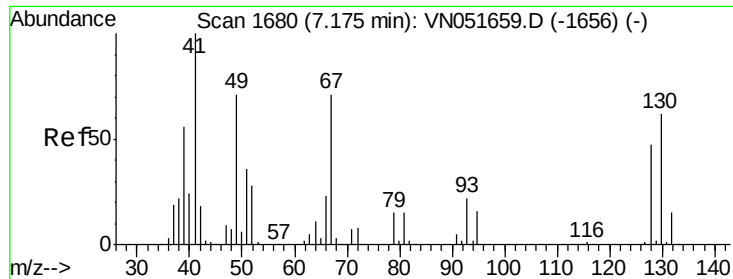
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	19.3	57.8#
77	0.1	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 4.981 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051796.D
 Acq: 10 Oct 2018 17:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	77.0	115.6#
121	0.0	25.0	37.6#

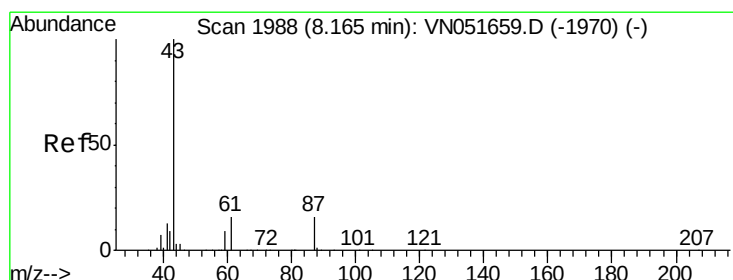
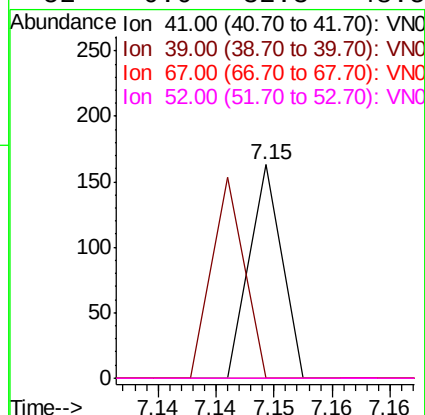
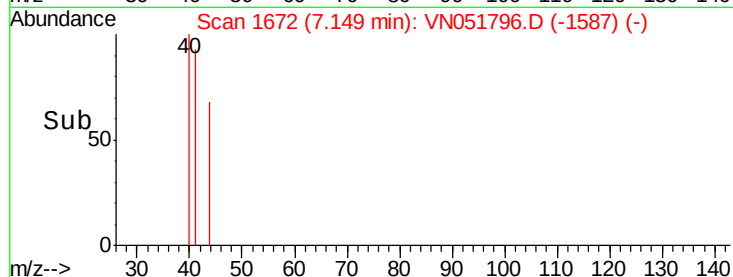
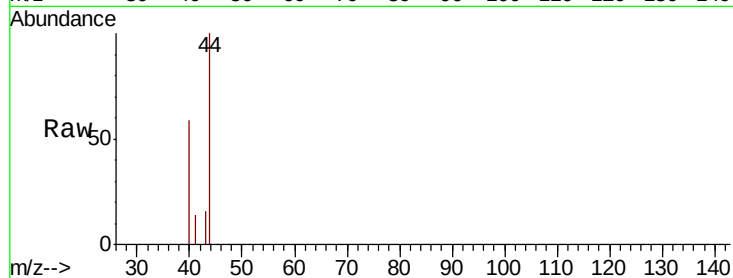




#41
Methacrylonitrile
Concen: Below Cal
RT: 7.15 min Scan# 1672
Delta R.T. -0.03 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

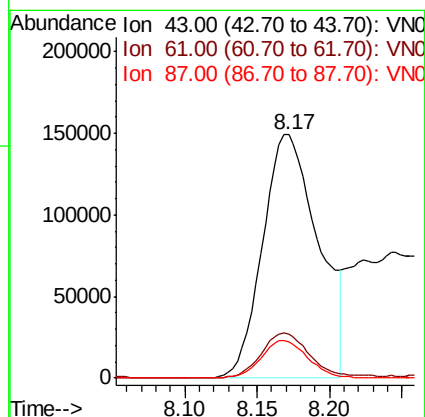
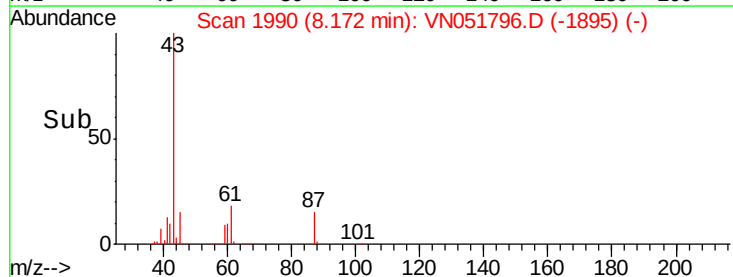
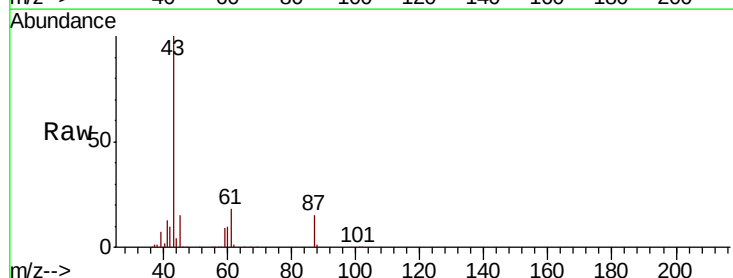
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#07

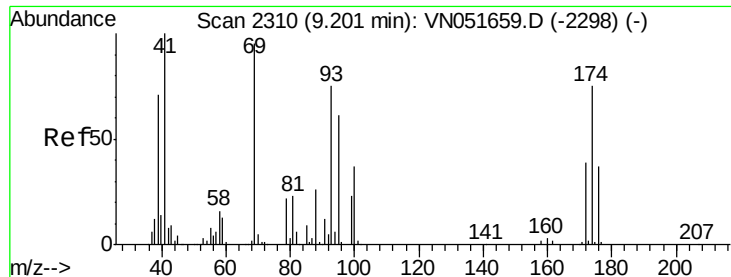
Tot Ion	Ratio	Lower	Upper
41	100		
39	93.5	53.9	80.9#
67	0.0	78.1	117.1#
52	0.0	32.3	48.5#



#43
Isopropyl Acetate
Concen: 29.846 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.01 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.0	15.8	23.6
87	13.1	12.6	19.0

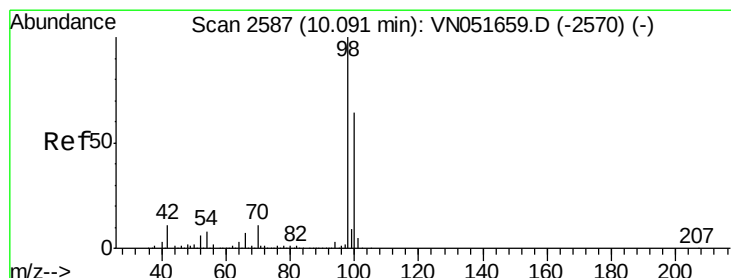
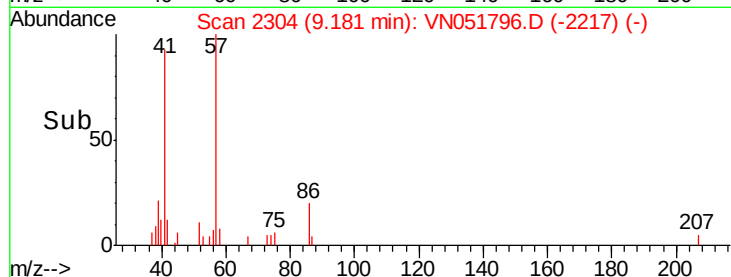
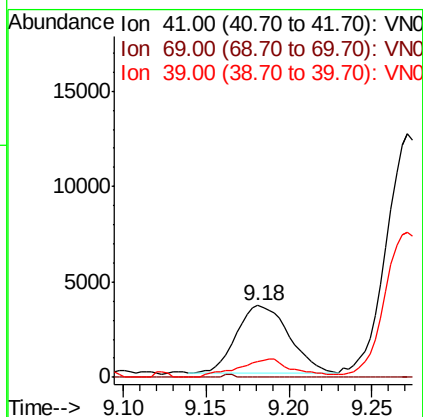
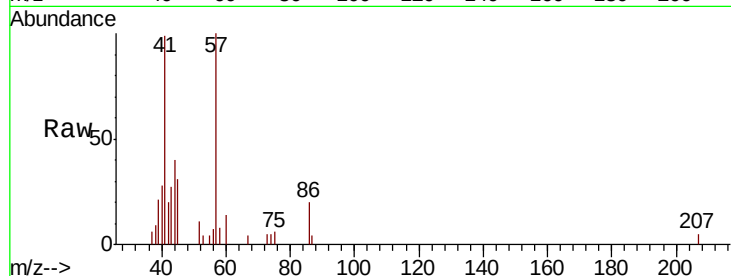




#48
Methvl methacrylate
Concen: 1.288 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

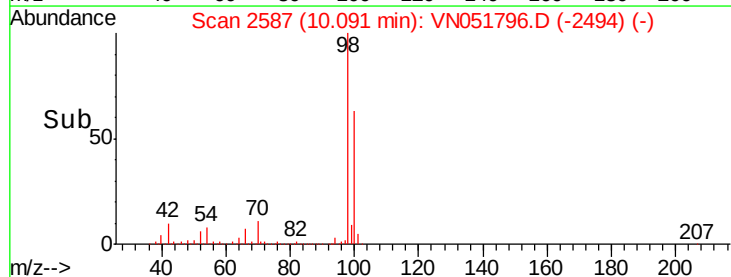
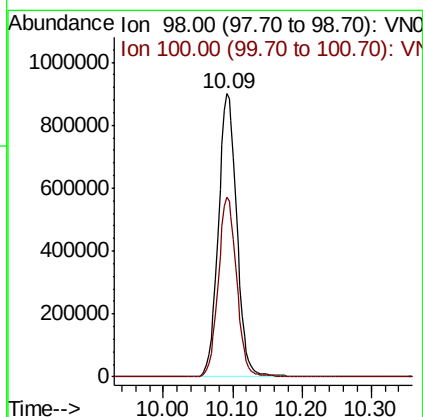
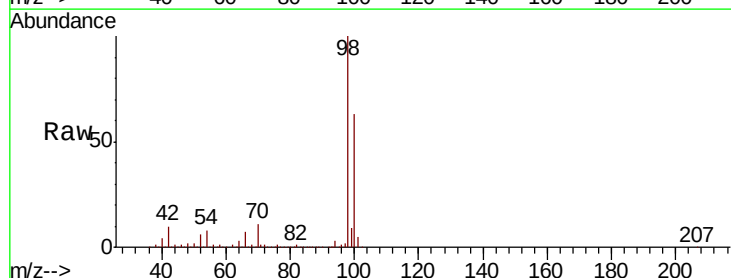
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#07

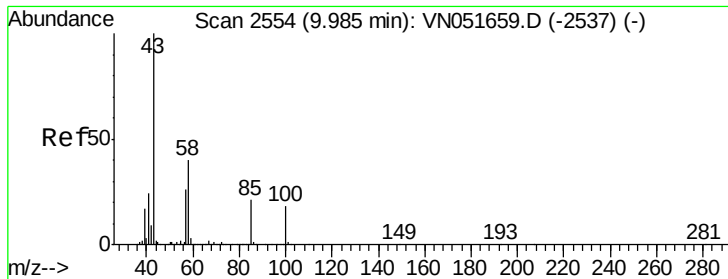
Tot Ion: 41 Resp: 7859
Ion Ratio Lower Upper
41 100
69 0.0 78.6 118.0#
39 28.5 59.2 88.8#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

Tgt Ion: 98 Resp: 1663907
Ion Ratio Lower Upper
98 100
100 63.1 51.5 77.3

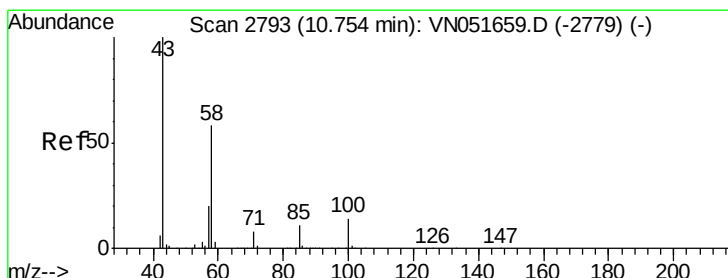
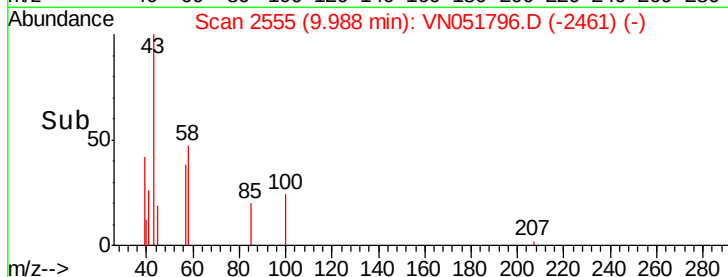
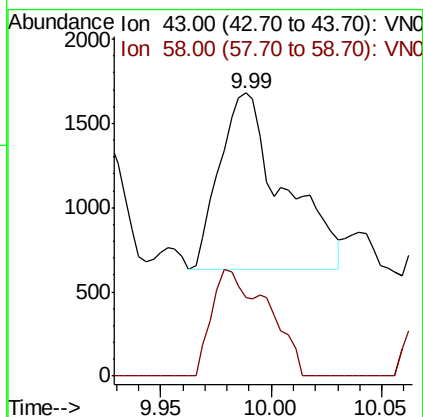
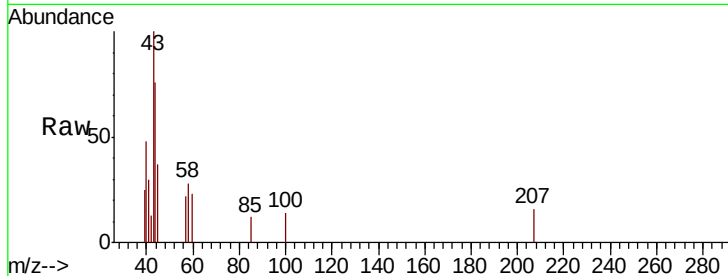




#51
 4-Methyl-2-Pentanone
 Concen: 0.313 ug/l
 RT: 9.99 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN051796.D
 Acq: 10 Oct 2018 17:24

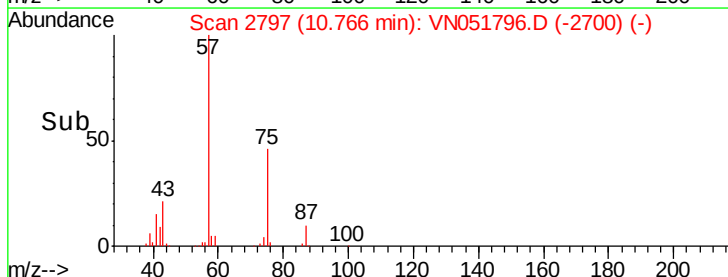
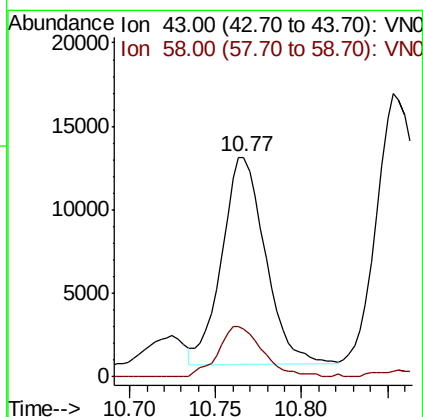
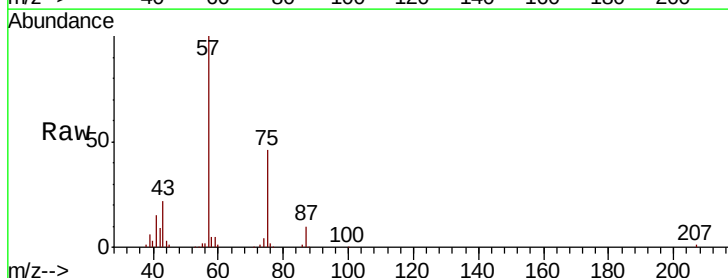
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113684ZHE#07

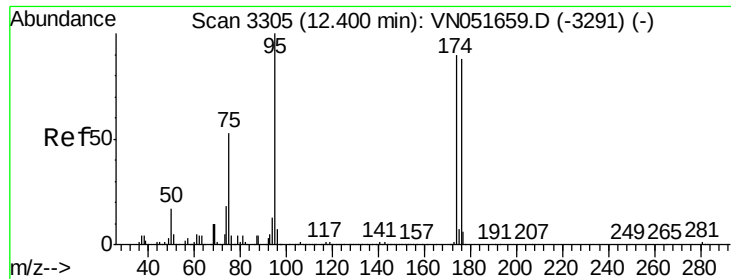
Tot Ion: 43 Resp: 2121
 Ion Ratio Lower Upper
 43 100
 58 52.1 32.2 48.2#



#59
 2-Hexanone
 Concen: 4.791 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN051796.D
 Acq: 10 Oct 2018 17:24

Tgt Ion: 43 Resp: 22016
 Ion Ratio Lower Upper
 43 100
 58 24.7 28.8 86.4#

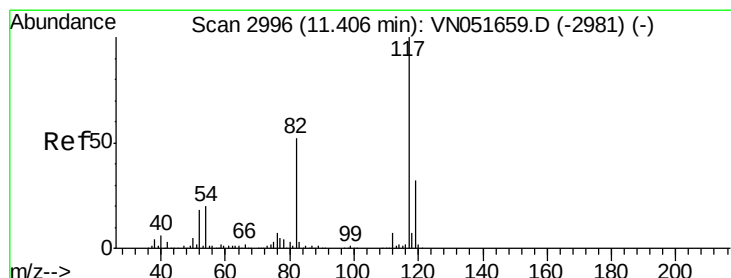
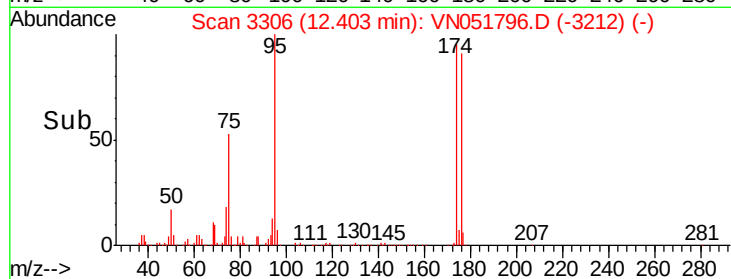
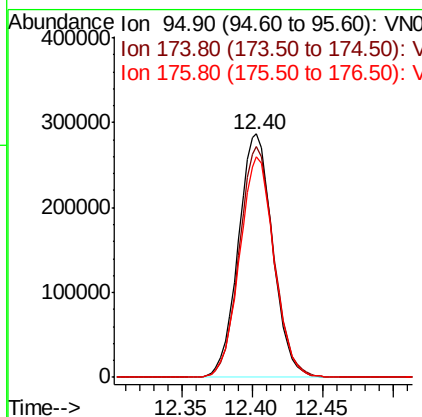
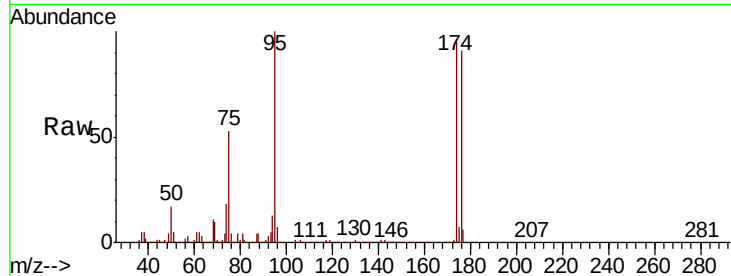




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

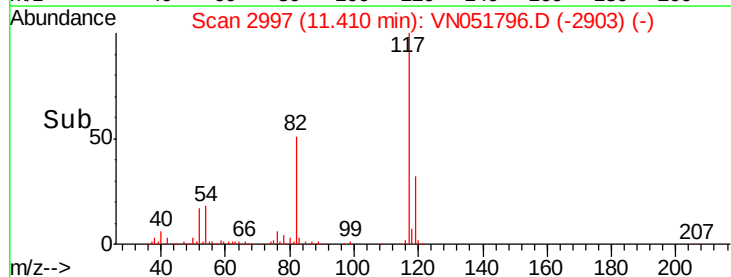
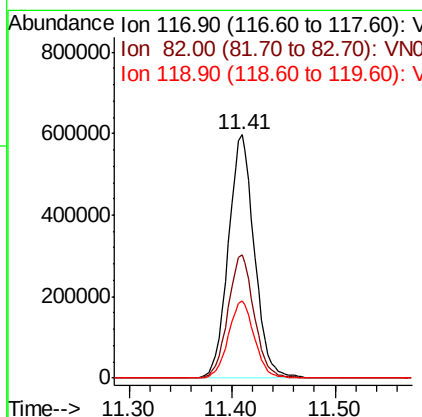
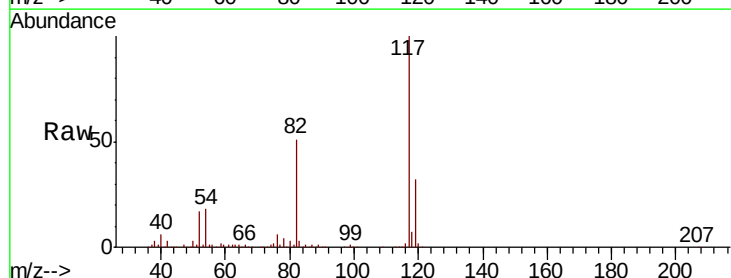
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#07

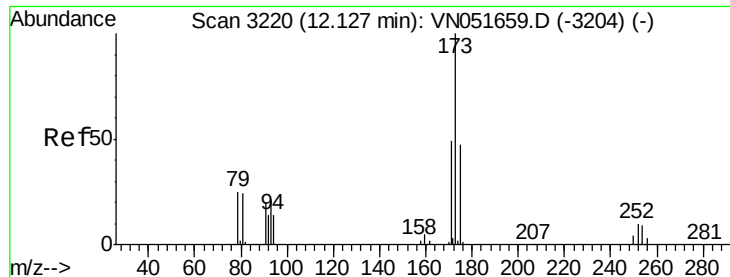
Tot Ion: 95 Resp: 488555
Ion Ratio Lower Upper
95 100
174 95.5 0.0 182.8
176 91.3 0.0 176.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051796.D
Acq: 10 Oct 2018 17:24

Tgt Ion: 117 Resp: 1048038
Ion Ratio Lower Upper
117 100
82 50.9 41.3 61.9
119 31.8 25.9 38.9





#71

Bromoform

Concen: 0.537 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN051796.D

Acq: 10 Oct 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#07

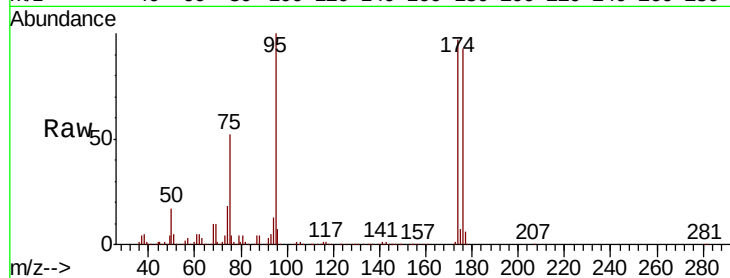
Tot Ion:173 Resp: 4152

Ion Ratio Lower Upper

173 100

175 703.2 24.0 72.0#

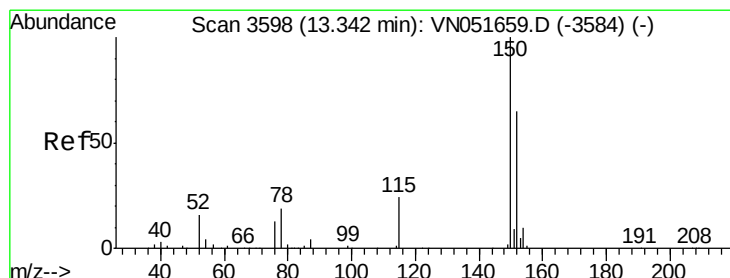
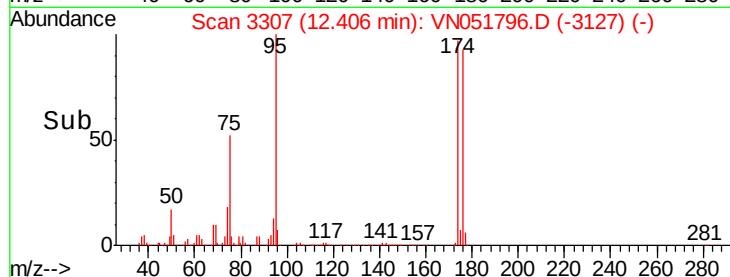
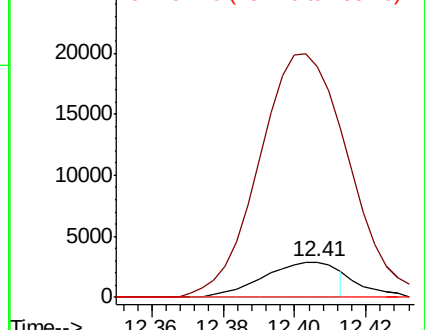
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051796.D

Acq: 10 Oct 2018 17:24

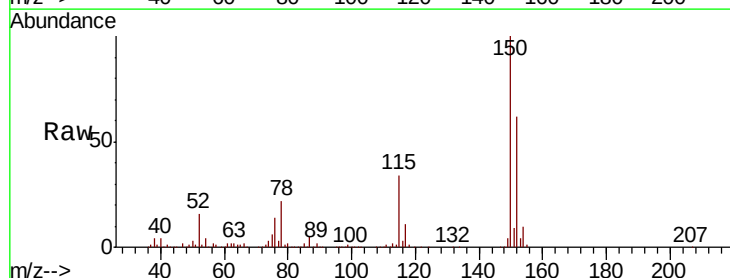
Tgt Ion:152 Resp: 411196

Ion Ratio Lower Upper

152 100

115 54.3 28.6 85.8

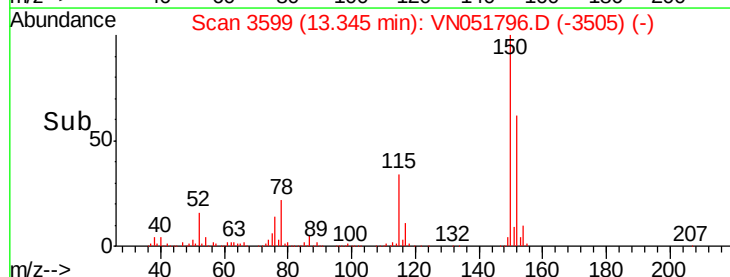
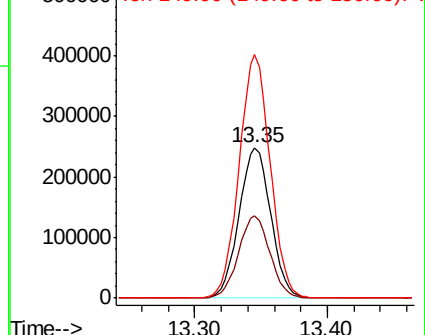
150 158.6 0.0 352.4

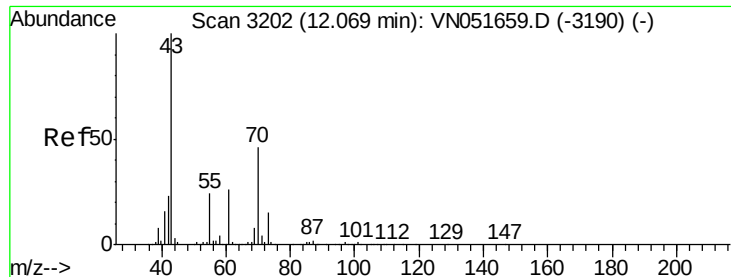


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.10 min Scan# 3212

Delta R.T. 0.03 min

Lab File: VN051796.D

Acq: 10 Oct 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#07

Tot Ion: 43 Resp: 233

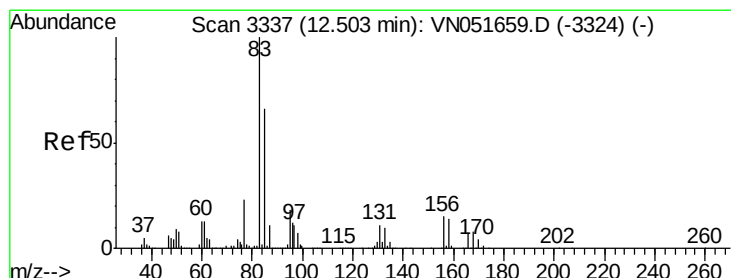
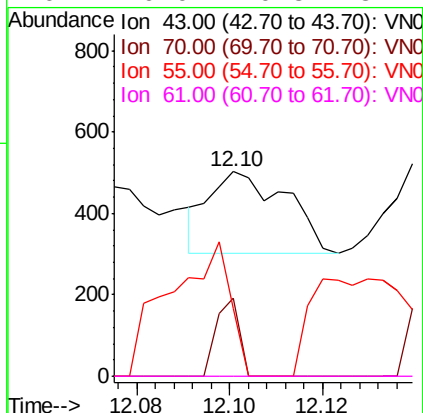
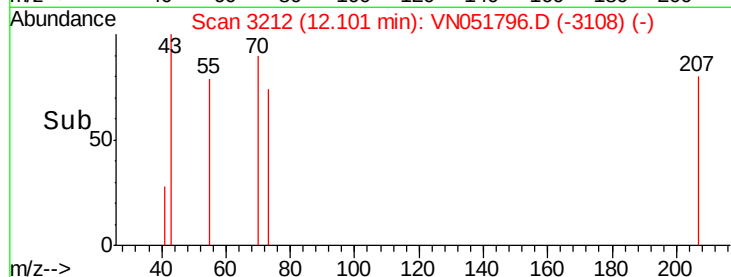
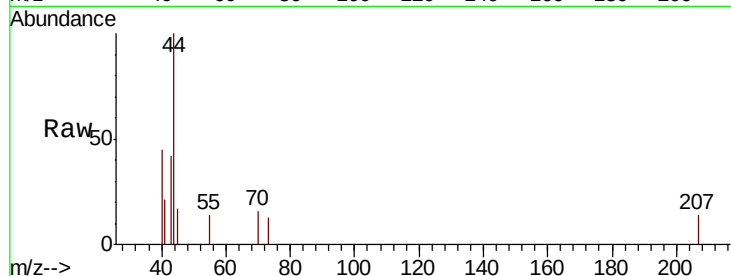
Ion Ratio Lower Upper

43 100

70 28.8 37.1 55.7#

55 129.2 19.1 28.7#

61 0.0 20.8 31.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.53 min Scan# 3345

Delta R.T. 0.03 min

Lab File: VN051796.D

Acq: 10 Oct 2018 17:24

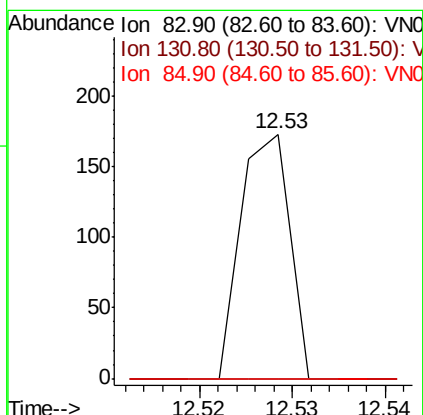
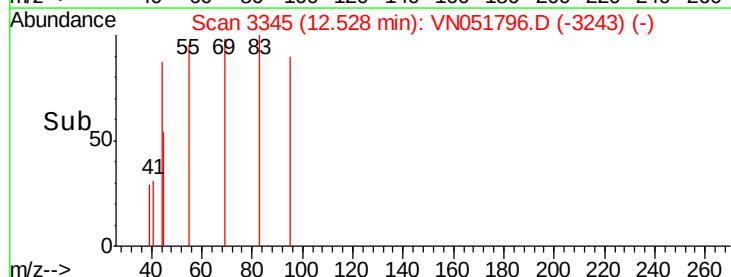
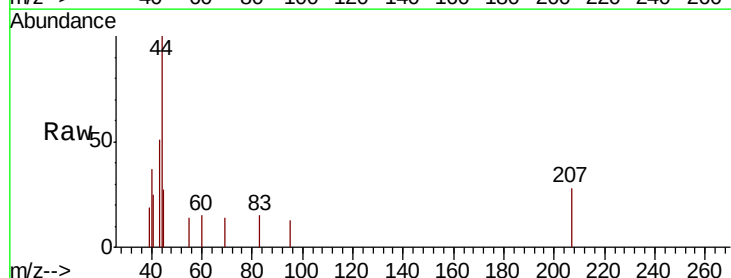
Tgt Ion: 83 Resp: 63

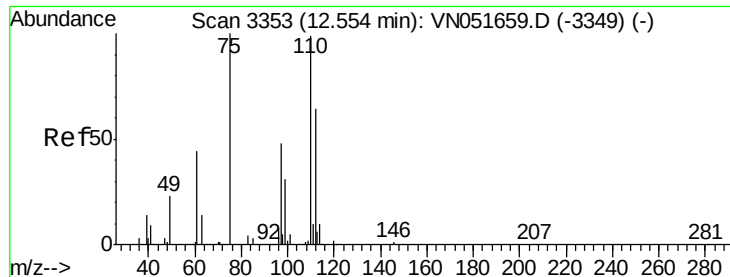
Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

85 0.0 33.0 98.9#





#76

1,2,3-Trichloropropane

Concen: 50.228 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051796.D

Acq: 10 Oct 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

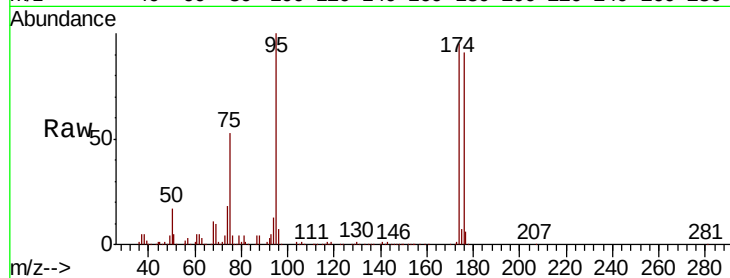
PB113684ZHE#07

Tot Ion: 75 Resp: 256531

Ion Ratio Lower Upper

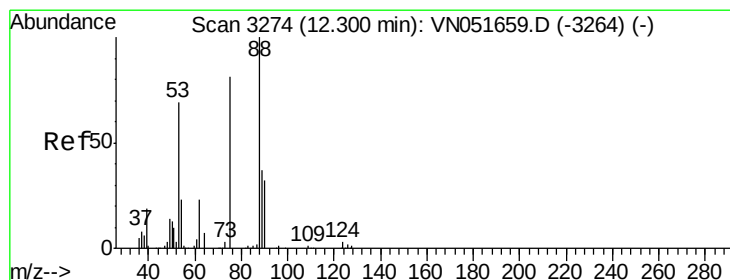
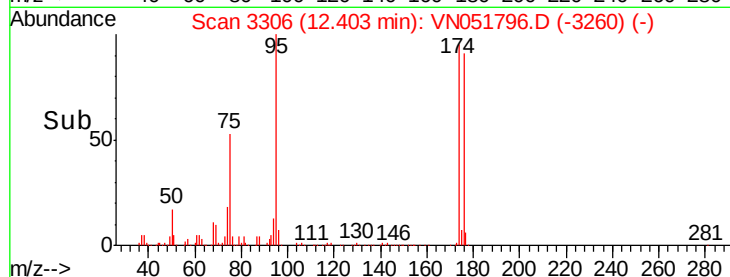
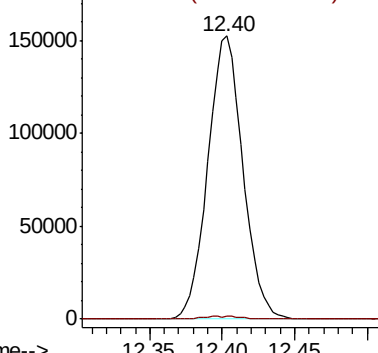
75 100

77 0.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 114.679 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051796.D

Acq: 10 Oct 2018 17:24

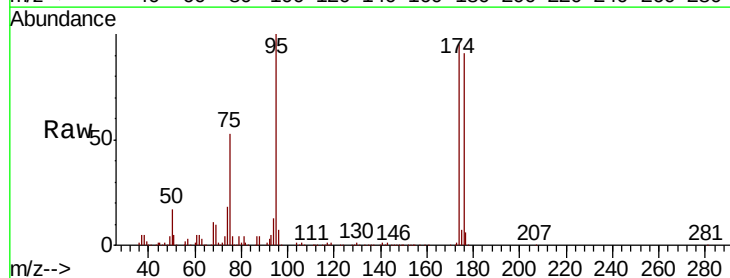
Tgt Ion: 75 Resp: 256531

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 39.4 59.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

